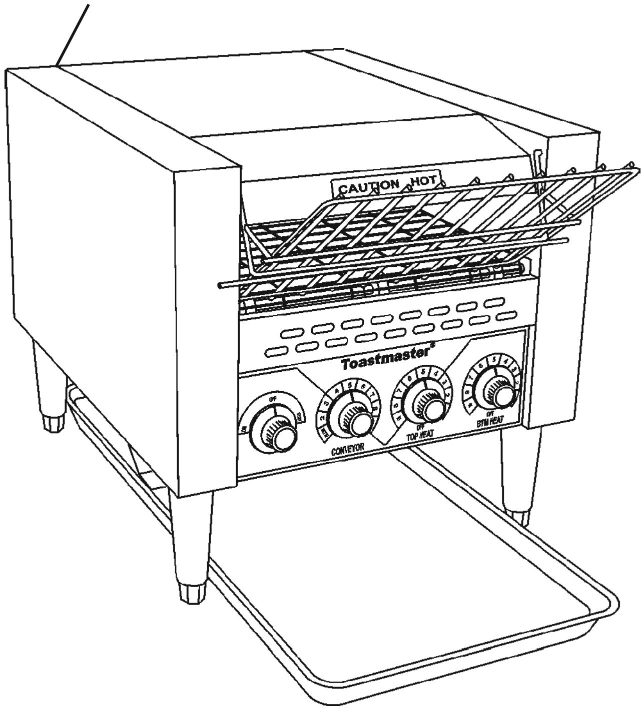
TC17A, TC21A Conveyor Toasters

SPL122405-PF-BD
June 21, 2010
Replaces PMD-23-002
Rev. B-V1-12/00

Serial Tag Location
on Left Rear



Serial # Code
First 4 digits - order of production
Fifth digit - model specific
Sixth and Seventh digit - month of production
Eighth and Ninth digit - year of production

Starting Serial # 000010101 thru
000011203

- TC17A
- TC17A3
- TC17A3-EC
- TC17A3-FEC
- TC17A3-REC
- TC21A
- TC21A3
- TC21A3-EC
- TC21A3-FEC
- TC21A3-REC

These Models are no longer
in production.

Parts Manual

with Wiring Diagrams for domestic and standard export toasters

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STAR INTERNATIONAL HOLDINGS INC. COMPANY
Star - Holman - Lang - Wells - Bloomfield - Toastmaster
10 Sunnen Drive, St. Louis, MO 63143 U.S.A.
(800) 807-9054   (314) 781-2777
Parts & Service (800) 807-9054
www.star-mfg.com

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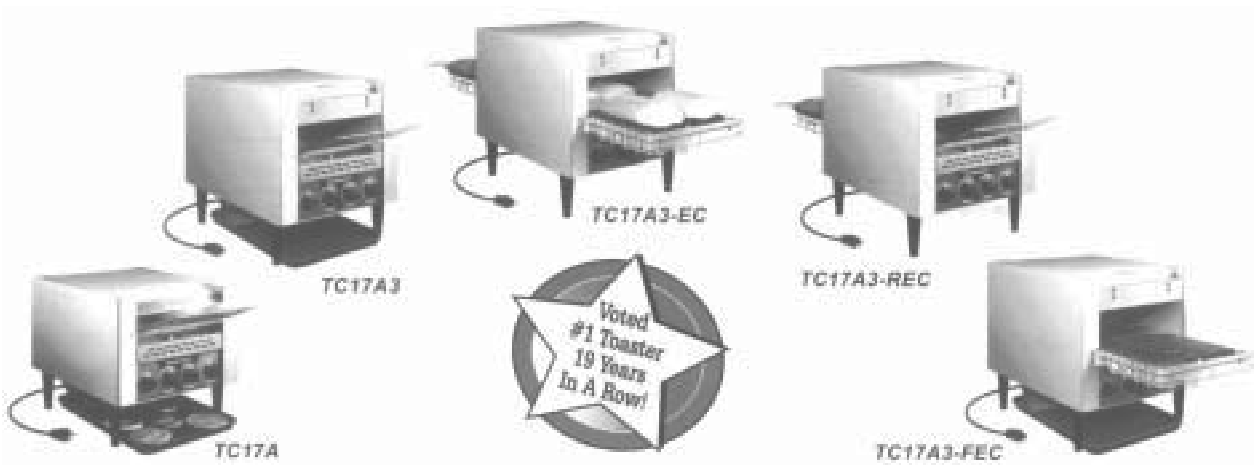
Toastmaster

Foodservice Equipment

Job: ____________ Item No.: ________

Conveyor Toasters

Models TC17A, TC17A3, TC17A3-EC, TC17A3-FEC, TC17A3-REC



Application

TC17A Series Conveyor Toasters are designed to uniformly toast breads, buns, bagels, English muffins and other bakery products in large quantities using continuous feed methods.

General Information

Product Height

- Standard (Model TC17A) - 1-1/2"/ 38mm-high opening
- Extra-Tall (All other models) - 3"/ 76mm-high opening

Conveyor Type

- Standard Conveyor (Models TC17A, TC17A3) - conveyor extends to the end of the toasting chamber.
- Extended Conveyor (All other models) - Conveyor extends 7"/178mm beyond the end of the toasting chamber. Available in front-only (TC17A3-FEC), rear-only (TC17A3-REC), or front-and-rear (TC17A3-EC) versions.

Product Loading

Models TC17A, TC17A3 and TC17A3-REC are equipped with a loading rack that is angled to feed the product into the toaster continuously. Models TC17A3-EC and TC17A3-FEC have a front extended conveyor for easier loading of larger bakery products.

Product Delivery

All models are capable of rear-exit, pass-through operation. Models TC17A, TC17A3, and TC21A3-FEC are shipped as front-return models, but can easily be converted to rear-exit operation by following the supplied instructions.

Safety

Unique air flow design keeps the case, top and sides cool. The unit is equipped with an automatic cool down feature that allows the fan to cool the outer skin after the unit is turned off.

Construction

Steel construction with a stainless steel finish is used for durability. A stainless steel full-length slide-out crumb tray makes clean-up easy. A fiberglass return tray is included.

Electrical

Toaster models are voltage-specific for 120V, 208V or 240V, 1-phase only. The total rated input is 1.97 kW for 120V toasters; 2.62 kW for 208V or 240V toasters; and 2.41 kW for 230V CE toasters. A factory-installed cord with plug is included.

Heating

When control is set to "ON," top and bottom tubular heating elements will turn on to toast both sides of bread. Lightness and darkness of the product is achieved by adjusting the top and bottom heat controls. Standby position allows for energy savings during non-peak periods.

Controls

Rotary 3-position dial selects ON/OFF/ STANDBY positions. A conveyor speed dial controls the belt speed. Heat dials control the upper and lower heating elements.

Accessories

- *Fiberglass return tray* - supplied with TC17A, TC17A3, TC17A3-FEC
- *Angled loading rack* - supplied with TC17A, TC17A3, TC17A3-REC
- *Horizontal loading rack* (optional)
- *Stainless steel tray* (optional) - fits all toasters as an exit tray. May also be used as a loading tray for TC17A3-EC, TC17A3-FEC.
- *Stacking kit* (optional)

Ordering Information

- TC17A
- TC17A3
- TC17A3-EC
- TC17A3-FEC
- TC17A3-REC
- ETL versions 120V, 208V or 240V, 1 Ph, 50/60 Hz
- CE versions 230V, 1 Ph, 50/60 Hz

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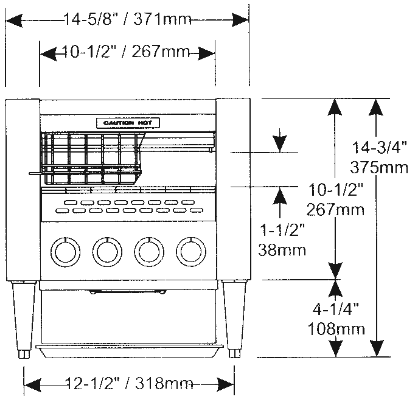
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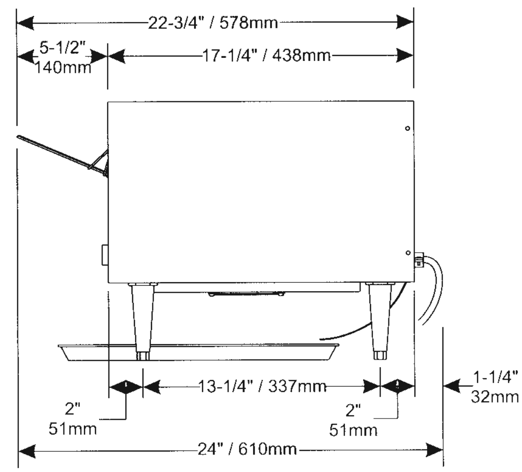
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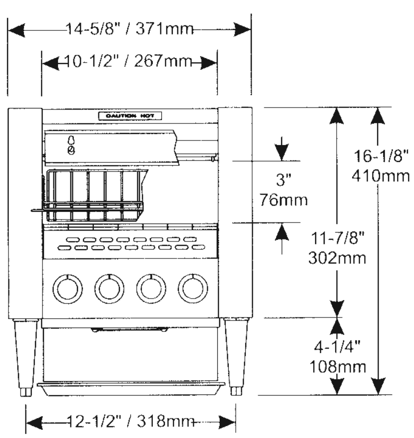
TC17A Series Conveyor Toasters

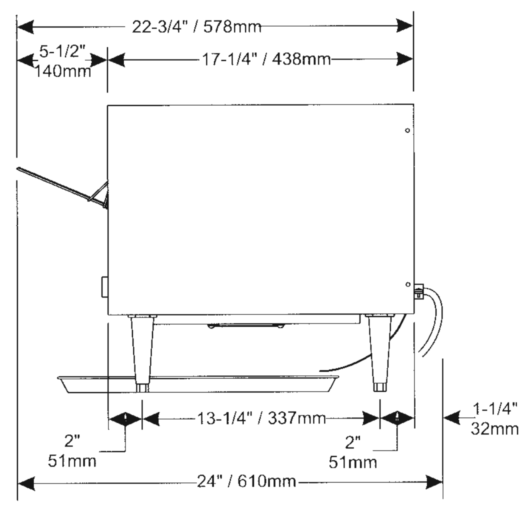
TC17A



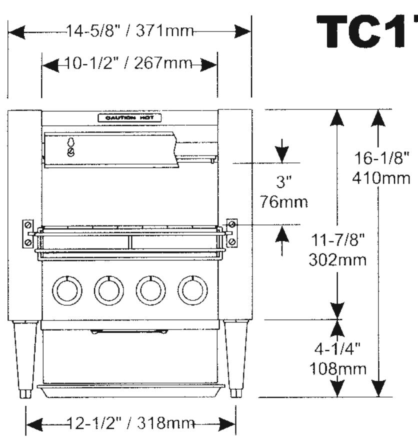


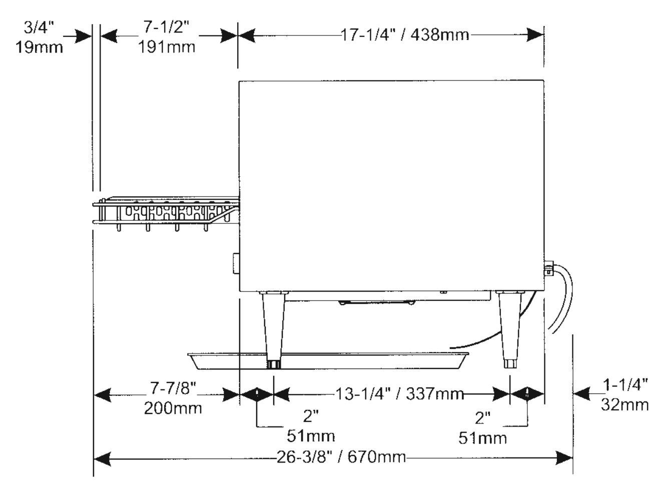
TC17A3





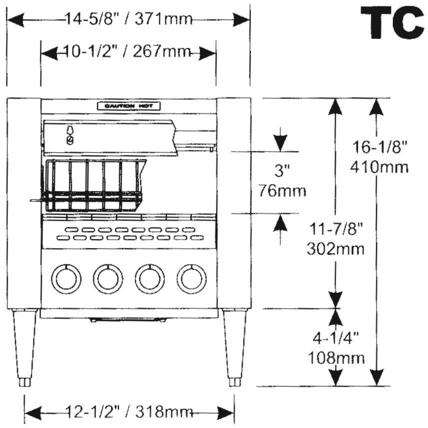
TC17A3-FEC

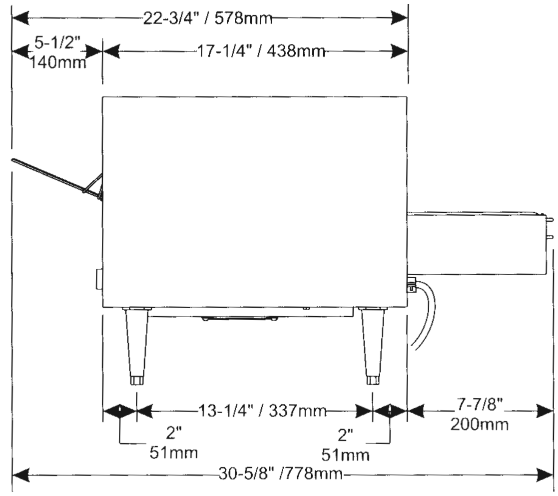




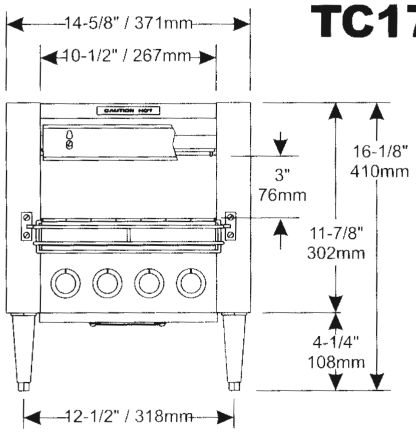
All CE -approved TC17A, TC17A3 and TC17A3-FEC toasters require an additional 2”/51mm rear cord clearance. This adds 2”/51mm to the overall depth required for installation.

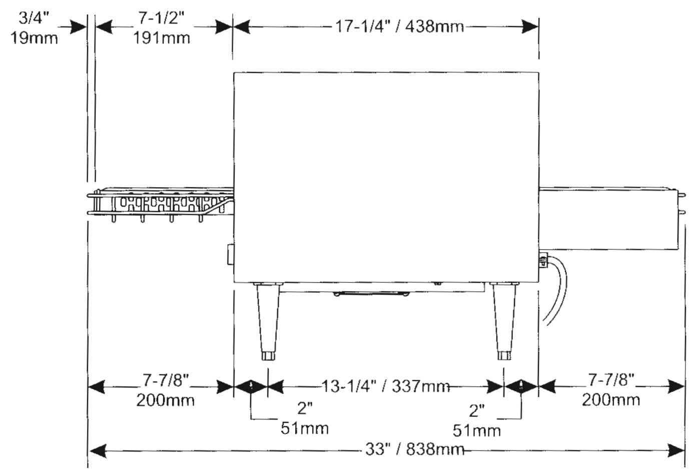
TC17A3-REC





TC17A3-EC

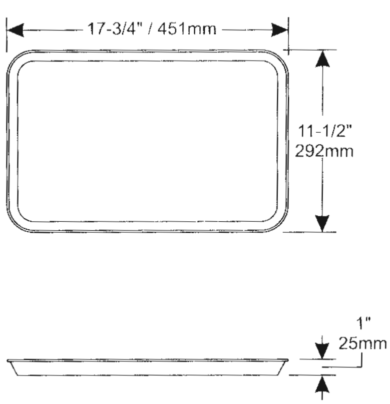




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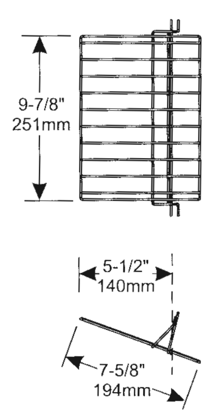
FIBERGLASS RETURN TRAY

(supplied with TC17A, TC17A3, TC17A3-FEC)



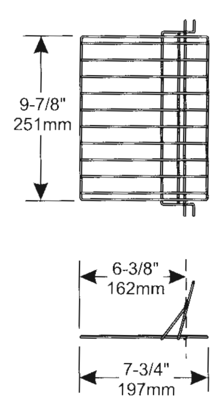
ANGLED LOADING RACK

(supplied with TC17A, TC17A3, TC17A3-REC)



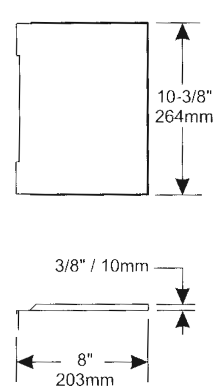
HORIZONTAL LOADING RACK

(optional)



STAINLESS STEEL TRAY

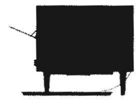
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Toastmaster

TC17A Series Conveyor Toasters

GENERAL INFORMATION

	Standard	Extra-Tall			
	TC17A	TC17A3	TC17A3-EC	TC17A3-FEC	TC17A3-REC
	 Standard conveyor	 Standard conveyor	 Extended conveyor	 Front extended conveyor	 Rear extended conveyor
Product delivery	Front or rear exit	Front or rear exit	Rear exit	Front or rear exit	Rear exit
Width	14-5/8" / 371mm	14-5/8" / 371mm	14-5/8" / 371mm	14-5/8" / 371mm	14-5/8" / 371mm
Depth (inc. rear cord clearance)	24" 610mm [1,2,4]	24" 610mm [1,2,4]	33" 838mm [3,4]	26-3/8" 670mm [1,3,4]	30-5/8" 778mm [2,4]
Height (single)	14-3/4" / 375mm	16-1/8" / 410mm	16-1/8" / 410mm	16-1/8" / 410mm	16-1/8" / 410mm
Height (stacked)	29-1/4" / 743mm	32" / 813mm	32" / 813mm	32" / 813mm	32" / 813mm
Toasting chamber width	10-1/2" / 267mm	10-1/2" / 267mm	10-1/2" / 267mm	10-1/2" / 267mm	10-1/2" / 267mm
Toasting chamber length	17" / 432mm	17" / 432mm	17" / 432mm	17" / 432mm	17" / 432mm
Toasting chamber height	1-1/2" / 38mm	3" / 76mm	3" / 76mm	3" / 76mm	3" / 76mm
Capacity (slices per hour)	300+ (120V) or 600+ (208V or 240V)	200+ (120V) or 400+ (208V or 240V)	200+ (120V) or 400+ (208V or 240V)	200+ (120V) or 400+ (208V or 240V)	200+ (120V) or 400+ (208V or 240V)
Shipping weight	52 lbs. / 23.6 kg	57 lbs. / 25.9 kg	64 lbs. / 29.1 kg	61 lbs. / 27.7 kg	61 lbs. / 27.7 kg

1. For CE -approved versions, add 2" / 51mm to depth for additional rear cord clearance.
2. Horizontal loading tray adds 7/8" / 22mm to depth.
3. Stainless steel tray on front (as loading tray) adds 8" / 203mm to depth.
4. Stainless steel tray on rear (as exit tray) adds 8" / 203mm to depth.

ELECTRICAL SPECIFICATIONS

Version	*Voltage*	*Phase*	*Freq.*	*Rated Heat Input*	*Current Draw*	*Plug Type*
ETL, ETL	120V	1	50/60 Hz	1.97 kW	16.4A	NEMA 5-20P
ETL, ETL	208V	1	50/60 Hz	2.62 kW	12.6A	NEMA 6-20P
ETL, ETL	240V	1	50/60 Hz	2.62 kW	11.0A	NEMA 6-20P
CE	230V	1	50/60 Hz	2.41 kW	11.0A	Kabelmetal-type HO7RN-F cord; 3 x 1.5mm conductors with moulded-on plug rated 250VAC, 16A

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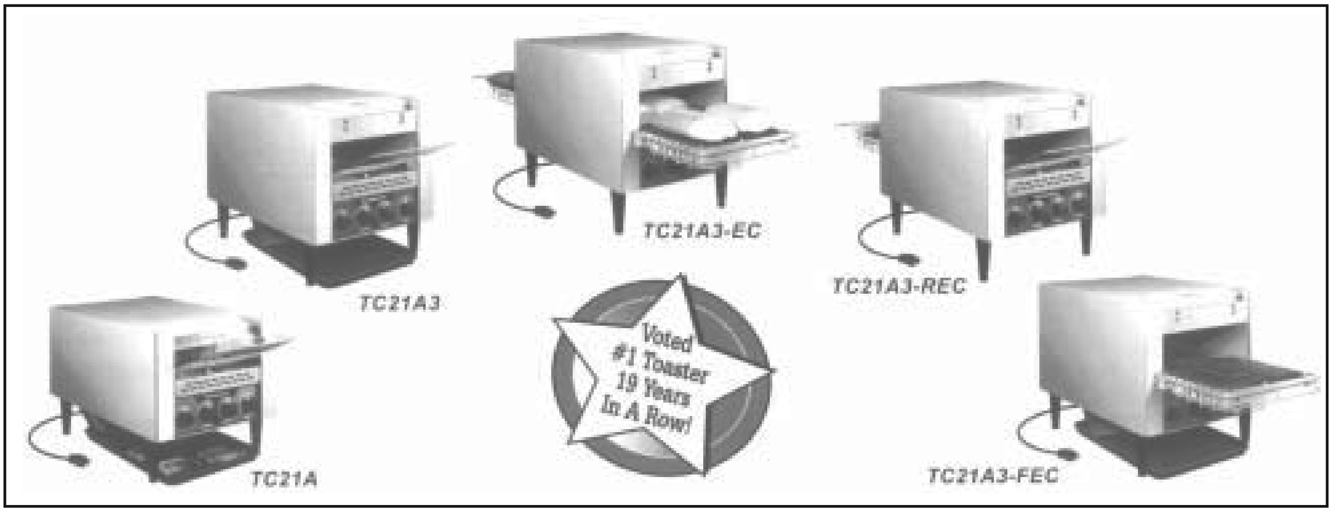
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Foodservice Equipment

Job: ____________ Item No.: ________

Conveyor Toasters

Models TC21A, TC21A3, TC21A3-EC, TC21A3-FEC, TC21A3-REC



Application

TC21A Series Conveyor Toasters are designed to uniformly toast breads, buns, bagels, English muffins and other bakery products in large quantities using continuous feed methods.

General Information

Product Height

- Standard (Model TC21A) - 1-1/2"/ 38mm-high opening
- Extra-Tall (All other models) - 3"/ 76mm-high opening

Conveyor Type

- Standard Conveyor (Models TC21A, TC21A3) - conveyor extends to the end of the toasting chamber.
- Extended Conveyor (All other models) - Conveyor extends 7"/178mm beyond the end of the toasting chamber. Available in front-only (TC21A3-FEC), rear-only (TC21A3-REC), or front-and-rear (TC21A3-EC) versions.

Product Loading

Models TC21A, TC21A3 and TC21A3-REC are equipped with a loading rack that is angled to feed the product into the toaster continuously. Models TC21A3-EC and TC21A3-FEC have a front extended conveyor for easier loading of larger bakery products.

Product Delivery

All models are capable of rear-exit, pass-through operation. Models TC21A, TC21A3, and TC21A3-FEC are shipped as front-return models, but can easily be converted to rear-exit operation by following the supplied instructions.

Safety

Unique air flow design keeps the case, top and sides cool. The unit is equipped with an automatic cool down feature that allows the fan to cool the outer skin after the unit is turned off.

Construction

Steel construction with a stainless steel finish is used for durability. A stainless steel full-length slide-out crumb tray makes clean-up easy. A fiberglass return tray is included.

Electrical

Toaster models are voltage-specific for 208V or 240V, 1-phase only. The total rated input is 2.9 kW (2.7 kW for CE models). A factory-installed cord with plug is included.

Heating

When control is set to "ON," top and bottom tubular heating elements will turn on to toast both sides of bread. Lightness and darkness of the product is achieved by adjusting the top and bottom heat controls. Standby position allows for energy savings during non-peak periods.

Controls

Rotary 3-position dial selects ON/OFF/ STANDBY positions. A conveyor speed dial controls the belt speed. Heat dials control the upper and lower heating elements.

Accessories

- *Fiberglass return tray* - supplied with TC21A, TC21A3, TC21A3-FEC
- *Angled loading rack* - supplied with TC21A, TC21A3, TC21A3-REC
- *Horizontal loading rack* (optional)
- *Stainless steel tray* (optional) - fits all toasters as an exit tray. May also be used as a loading tray for TC21A3-EC, TC21A3-FEC.
- *Stacking kit* (optional)

Ordering Information

- TC21A
- TC21A3
- TC21A3-EC
- TC21A3-FEC
- TC21A3-REC
- ETL versions 208V or 240V, 1 Ph, 50/ 60 Hz
- CE versions 230V, 1 Ph, 50/60 Hz

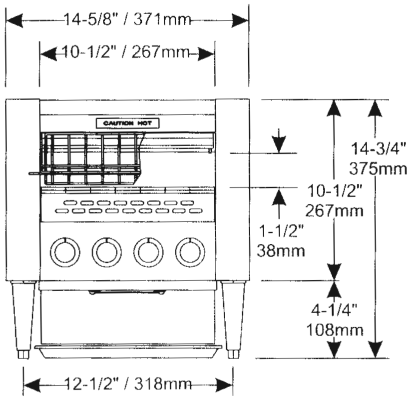
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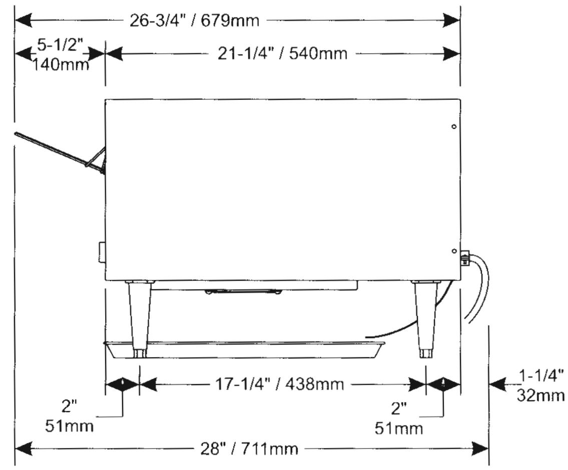
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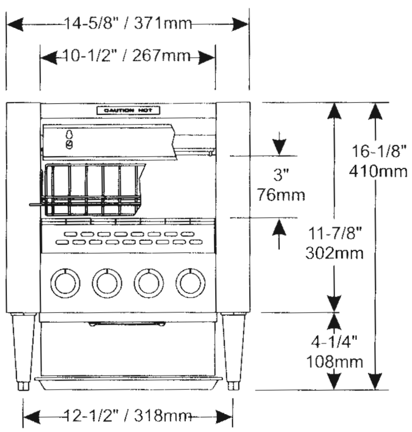
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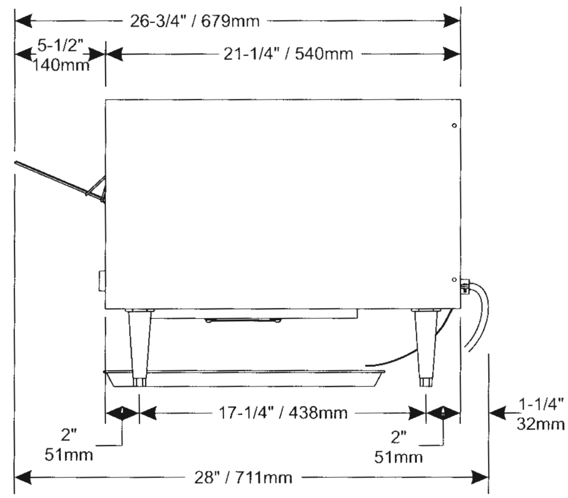
TC21A



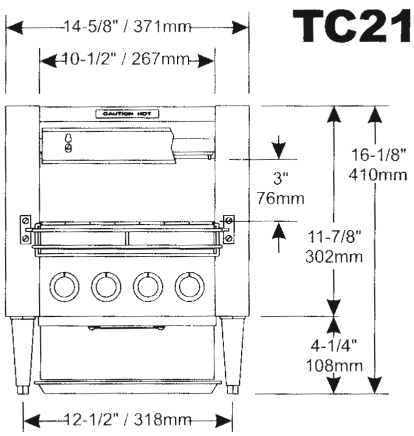


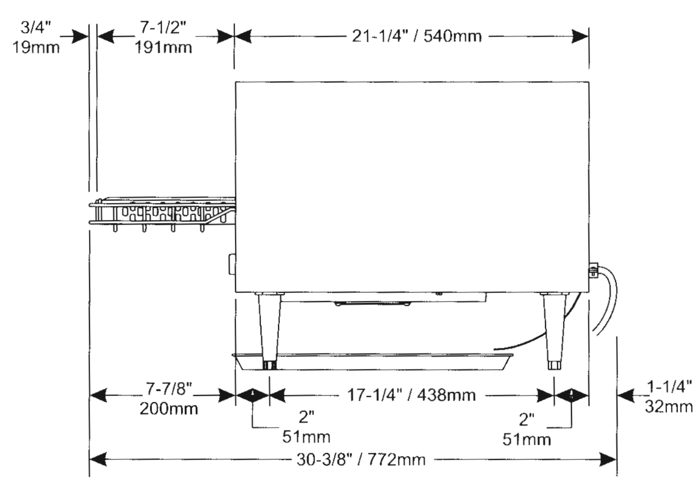
TC21A3





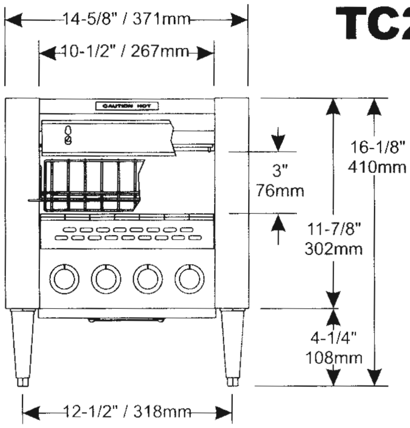
TC21A3-FEC

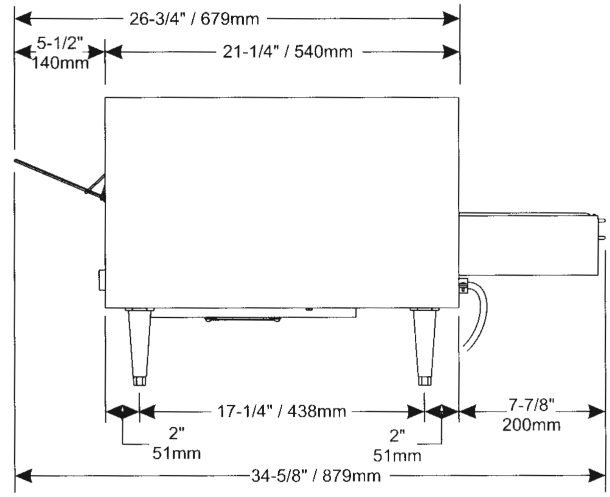




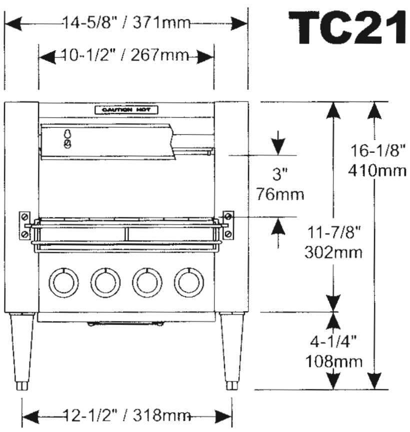
All CE-approved TC21A, TC21A3 and TC21A3-FEC toasters require an additional 2"/51mm rear cord clearance. This adds 2"/51mm to the overall depth required for installation.

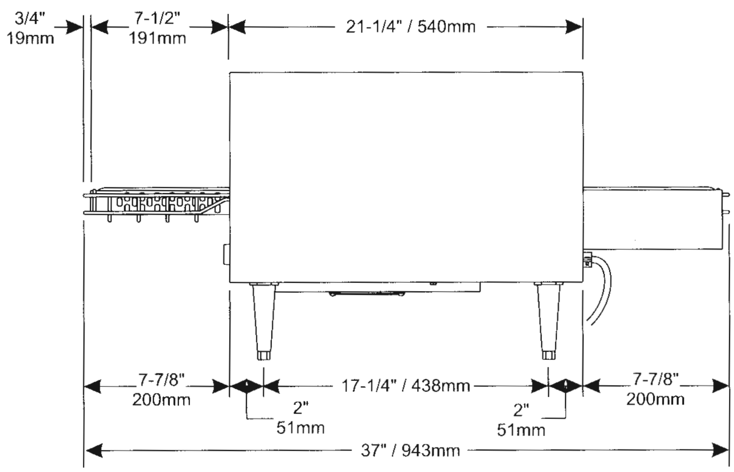
TC21A3-REC





TC21A3-EC

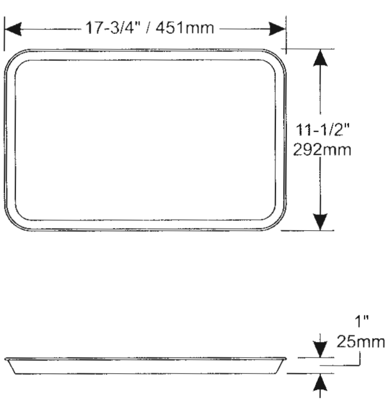




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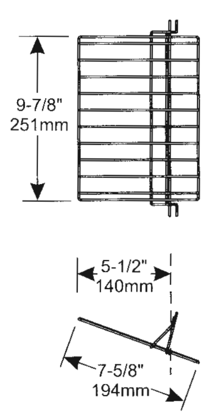
FIBERGLASS RETURN TRAY

(supplied with TC21A, TC21A3, TC21A3-FEC)



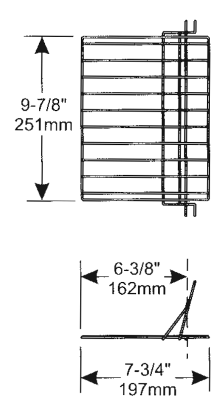
ANGLED LOADING RACK

(supplied with TC21A, TC21A3, TC21A3-REC)



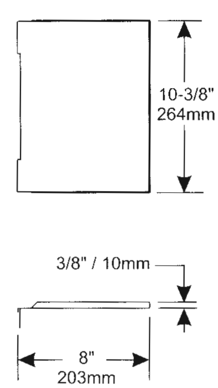
HORIZONTAL LOADING RACK

(optional)



STAINLESS STEEL TRAY

(optional)



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TC21A Series Conveyor Toasters

GENERAL INFORMATION

	Standard	*Extra-Tall*			
	TC21A	TC21A3	TC21A3-EC	TC21A3-FEC	TC21A3-REC
	 Standard conveyor	 Standard conveyor	 Extended conveyor	 Front extended conveyor	 Rear extended conveyor
Product delivery	Front or rear exit	Front or rear exit	Rear exit	Front or rear exit	Rear exit
Width	14-5/8" / 371mm	14-5/8" / 371mm	14-5/8" / 371mm	14-5/8" / 371mm	14-5/8" / 371mm
Depth (inc. rear cord clearance)	28" 711mm [1,2,4]	28" 711mm [1,2,4]	37" 940mm [3,4]	30-3/8" 772mm [1,3,4]	34-5/8" 879mm [2,4]
Height (single)	14-3/4" / 375mm	16-1/8" / 410mm	16-1/8" / 410mm	16-1/8" / 410mm	16-1/8" / 410mm
Height (stacked)	29-1/4" / 743mm	32" / 813mm	32" / 813mm	32" / 813mm	32" / 813mm
Toasting chamber width	10-1/2" / 267mm	10-1/2" / 267mm	10-1/2" / 267mm	10-1/2" / 267mm	10-1/2" / 267mm
Toasting chamber length	21" / 533mm	21" / 533mm	21" / 533mm	21" / 533mm	21" / 533mm
Toasting chamber height	1-1/2" / 38mm	3" / 76mm	3" / 76mm	3" / 76mm	3" / 76mm
Capacity (slices per hour)	1400+	1000+	1000+	1000+	1000+
Shipping weight	52 lbs. / 23.6 kg	57 lbs. / 25.9 kg	64 lbs. / 29.1 kg	61 lbs. / 27.7 kg	61 lbs. / 27.7 kg

1. For CE-approved versions, add 2" / 51mm to depth for additional rear cord clearance.
2. Horizontal loading tray adds 7/8" / 22mm to depth.
3. Stainless steel tray on front (as loading tray) adds 8" / 203mm to depth.
4. Stainless steel tray on rear (as exit tray) adds 8" / 203mm to depth.

ELECTRICAL SPECIFICATIONS

Version	*Voltage*	*Phase*	*Freq.*	*Rated Heat Input*	*Current Draw*	*Plug Type*
ETL ETL	208V	1	50/60 Hz	2.9 kW	13.9A	NEMA 6-20P
ETL ETL	240V	1	50/60 Hz	2.9 kW	12.1A	NEMA 6-20P
CE	230V	1	50/60 Hz	2.7 kW	12.1A	Kabelmetal-type HO7RN-F cord; 3 x 1.5mm conductors with moulded-on plug rated 250VAC, 16A

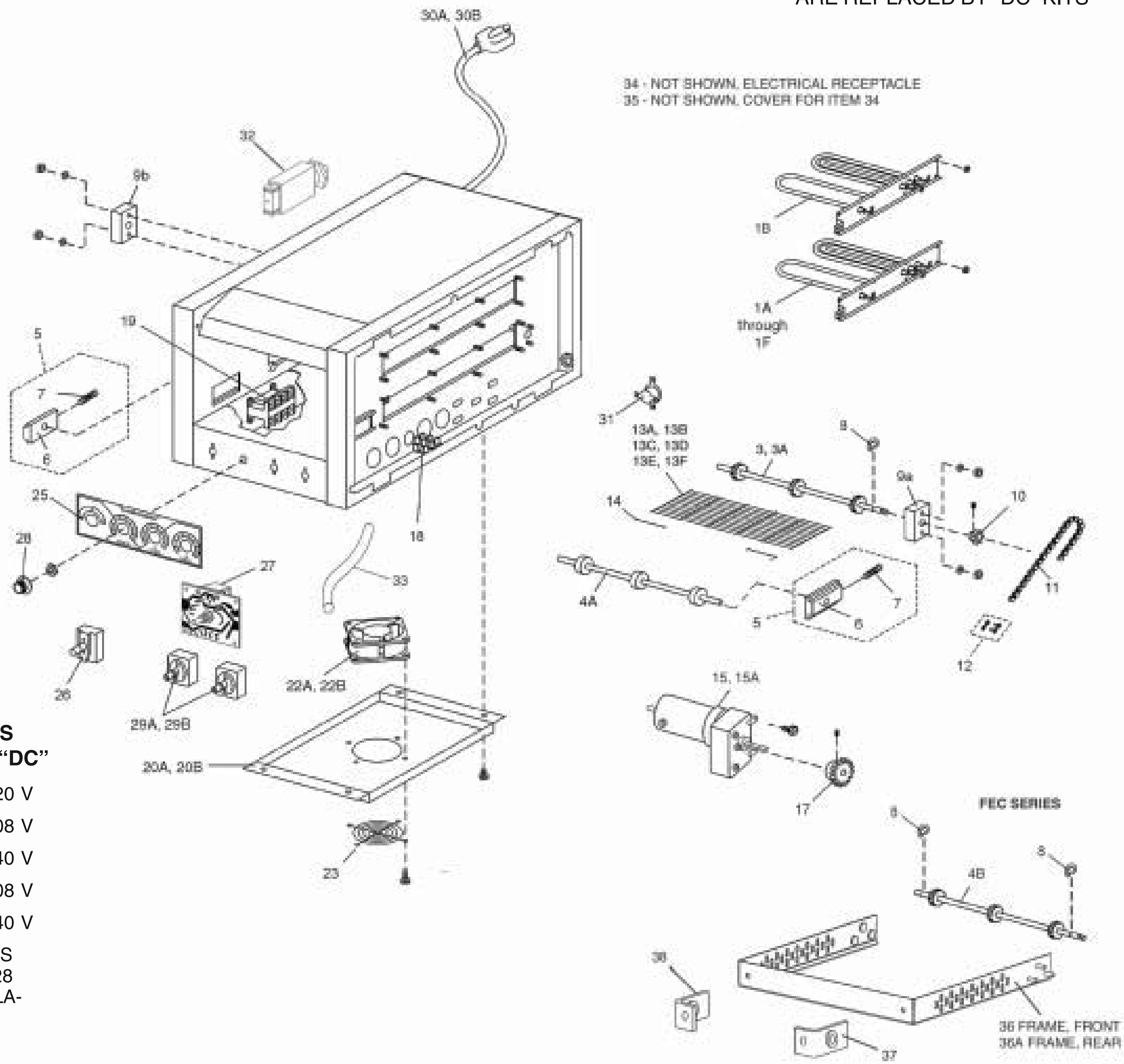
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View of INTERIOR PARTS

"AC DRIVE MOTOR / SPEED CONTROLLER ARE REPLACED BY "DC" KITS



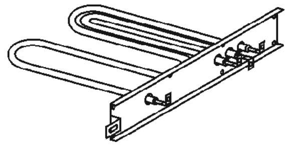
CONVERSION KITS
"AC" CONTROLS TO "DC"

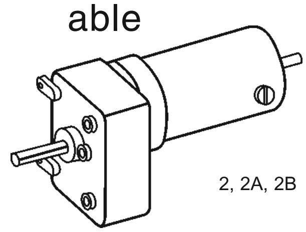
52436	TC17A	120 V
54751	TC17A	208 V
54752	TC17A	240 V
52447	TC21A	208 V
54753	TC21A	240 V

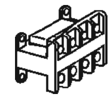
THE ABOVE INCLUDES ITEMS 10, 15, 17, 27, 28 AND 32, AND INSTALLATION INSTRUCTIONS #52435B.

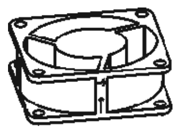
KEY PARTS

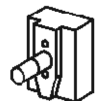
***CONVERSION KIT** - See Item(s) 10, “AC” Components are no longer available

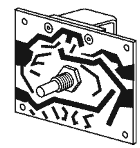

1A through 1F

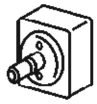

2, 2A, 2B

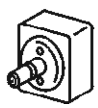

3


4, 4A

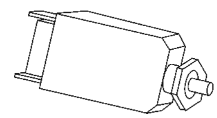

5


6


7


7A


8


9

KEY PARTS

TC17A & TC21A CONVEYOR TOASTER				
Item No	Qty	Part No	Description	Application
1a	1	2N-33404	ELEMENT,HEATING BTM 120V	TC17
1b	1	2N-33405	ELEMENT, HTG 120V 860/250W	TC17
1c	2	2N-33423	ELEMENT, HTG 208V 1060/250	TC17
1d	2	2N-33425	ELEMENT, HTG 240V 1060/250	TC17
1e	2	2N-41796	ELEMENT, HEATING BOT 208V	TC21
1f	2	2N-41797	ELEMENT, HEATING BOT 240V	TC21
2	1	2U-52223	ASSY, MOTOR DC TC17D/TC21D	TC17D/TC21D
2a	1	3002757 NLA	CONVEYOR DRIVE MOTOR, CAN ALSO BE USED - WIRES ONLY DC	
2b	1	J6-58390	CONVEYOR DRIVE MOTOR, CAN ALSO BE USED (UNIVERSAL KIT, w/MAGNET), DC	
3	1	2E-30697	TRANSFORMER 230VP/115VS	
4	1	2U-27392-0002	FAN AXIAL 115V 110CFM	
4a	1	2U-97525	FAN, 230V	208V/240V
5	1	2E-Z13598	SWITCH ROTARY 3 POSITION	
6	1	2J-3002808A	CONTROLLER, SPEED DCV TC17	TC17 120V
6	1	2J-3002808B	CONTROLLER, SPEED DCV TC17	TC17, 208V
6	1	2J-3002808C	CONTROLLER, SPEED DCV TC17	TC17, 240V
6	1	2J-3002808D	CONTROLLER, SPEED DCV TC21	TC21, 208V
6	1	2J-3002808E	CONTROLLER, SPEED DCV TC21	TC21, 208V
7	2	2J-3006098	CONTROLLER, TEMP 120V	120V
7a	2	2J-3006099	CONTROLLER, TEMP 240V	208/240V
8	1	2T-38079	THERMOSTAT, COOLDOWN, SNAP DISC N.O.	
9	1	2E-48635	BREAKER, CIRCUIT 240V .3A	
10*	1	2U-52436	MOTOR RETROFIT KIT AC TO DC VOLTAGE	TC17A 120V
10a	1	54751 NLA	KIT CONVERSION TO DC DRIVE MOTOR	TC17A 208V
10b	1	J6-54752	KIT,TO DC DRIVE MOTOR	TC17A 240V
10c	1	J6-52447	KIT,TO DC DRIVE MOTOR	TC21A 208V
10d	1	54753 NLA	KIT CONVERSION TO DC DRIVE MOTOR	TC21A 240V

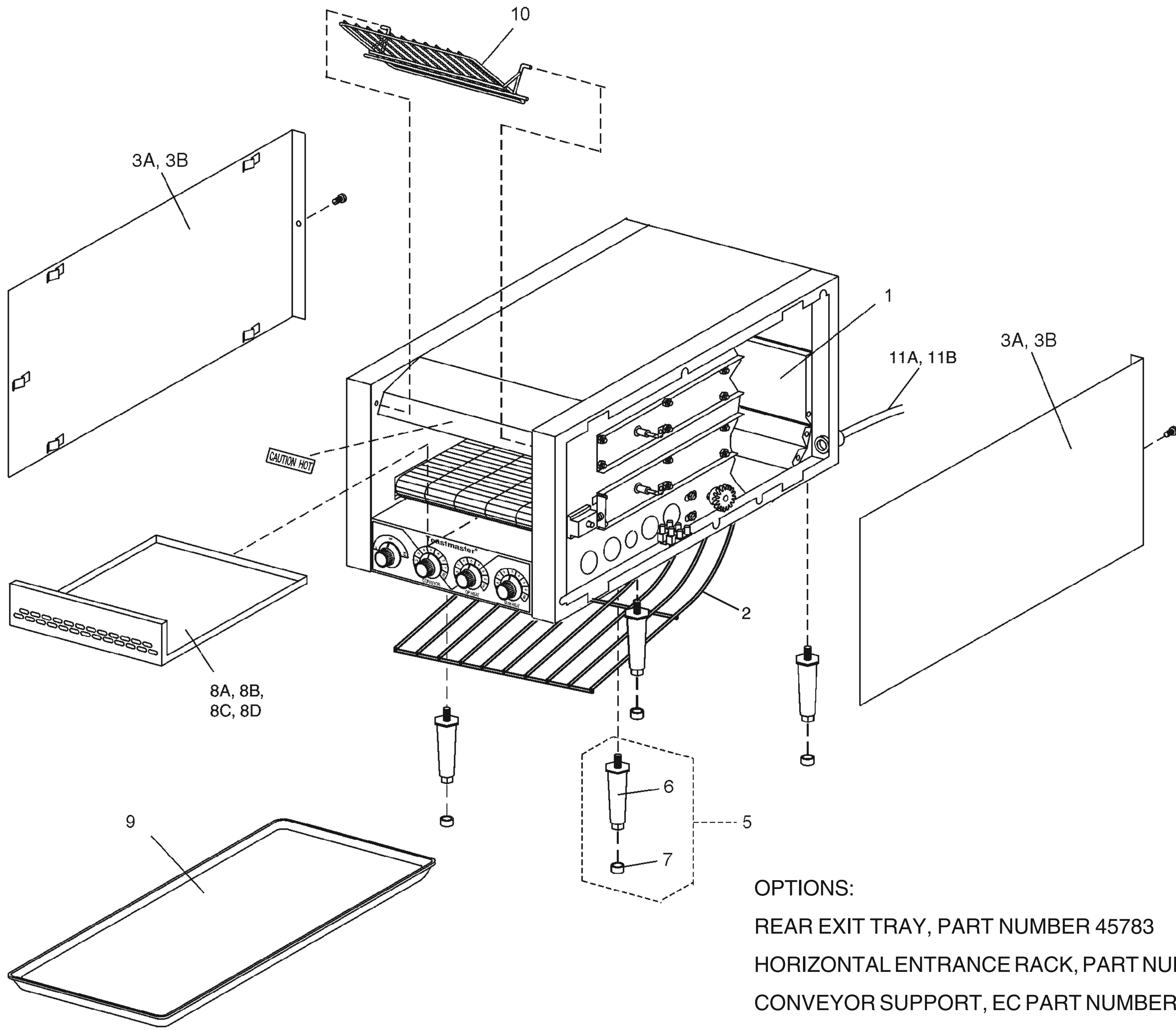
TC17A & TC21A CONVEYOR TOASTER INTERIOR PARTS

Item No	Qty	Part No	Description	Application
1A	1	2N-33404	ELEMENT, HEATING BTM 120V, SINGLE	TC17 120V
1B	1	2N-33405	ELEMENT, HEATING 120V 860/250W, DUAL	TC17 120V
1C	2	2N-33423	ELEMENT, HTG 208V 1060/250, DUAL	TC17 208V
1D	2	2N-33425	ELEMENT, HTG 240V 1060/250, DUAL	TC17 240V
1E	2	2N-41796	ELEMENT, HEATING BOT 208V 1200W+250W	TC21 208V
1F	2	2N-41797	ELEMENT, HEATING BOT 240V 1200W+250W	TC21 240V
3	1	J6-55563	ASSY,SHFT REAR TC14,18,17,21	
3A	1	*47441 NLA*	SHAFT ASSY, REAR, EC	
4A	1	J6-33396	ASSY, SHAFT FRONT w/SMOOTH ROLLERS	
4B	1	J6-47392	SHAFT ASSEMBLY, FRONT, w/SPROCKET ROLLERS	
5	2	C9-7610849	KIT, FRONT BEARING ASSY	
6	2	2P-7008178	BEARING, BLOCK FRONT	
7	2	2P-3103262	SPRING,COMPRESSION ZINC	
8	3	2C-3102930	RETAINER,E-RING 5/16	
9A	1	2P-7006964	BEARING, REAR RIGHT MOTOR	
9B	1	2A-7006963	BEARING, REAR LEFT	
10	1	2P-34129	SPROCKET, 12TOOTH .25B12-5/16	
11	1	J6-32090	DRIVE CHAIN, 16-14" w/MASTER LINK	
12	1	2C-3101212	LINK,MASTER #25 ROLLER CH	
13A	1	J6-33392	BELT,CONVEYOR TC17 3/8P	TC17
13B	1	J6-39351	BELT,CONVEYOR TOASTER, 33", 113 LINKS	TC21
13C	1	2B-47636	BELT, CONV, TC17 FEC, 42" 141 LINKS	
13D	1	*54704 NLA*	BELT, CONV, TC21EC, 68-3/8"	TC21EC
13E	1	2B-47753	BELT, CONVEYOR TC17EC 60-3/8"	TC17EC
13F	A/R	2B-33393	BELTING, WIRE 12" SECTION	
14	2	2C-33394	LINK, WIRE 3/8	
15	1	2U-52223	ASSY, MOTOR DC	TC17D/ TC21D
15A	1	*3002757 NLA*	MOTOR DRIVE - WIRES ONLY	
17	1	2P-34128	SPROCKET, 20T-1/4 25B20	
18	1	2E-33406	BLOCK, TERM 3POLE	
19	1	2E-30697	TRANSFORMER, 230VP: 115Va	
20A	1	J6-42681	PANEL, BOTTOM	TC17D
20B	1	J6-39260	PANEL, BOTTOM	TC21D
22A	1	2U-27392-0002	FAN,AXIAL 115V 110CFM	120V
22B	1	2U-97525	FAN, 230V	208/240V
23	1	2R-27470-0004	GUARD, FAN	
25	1	2M-45078	DECAL, CONTROL PANEL	TC17/TC21

TC17A & TC21A CONVEYOR TOASTER INTERIOR PARTS

Item No	Qty	Part No	Description	Application
26	1	2E-Z13596	SWITCH, ROTARY 3-POSITION	
27	1	2J-3002808A	CONTROLLER, SPEED DCV TC17	TC17 120V
27	1	2J-3002808B	CONTROLLER, SPEED DCV TC17	TC17, 208V
27	1	2J-3002808C	CONTROLLER, SPEED DCV TC17	TC17, 240V
27	1	2J-3002808D	CONTROLLER, SPEED DCV TC21	TC21, 208V
27	1	2J-3002808E	CONTROLLER, SPEED DCV TC21	TC21, 208V
28	4	2R-33402	KNOB, CONTROLS	
29A	2	2J-3006098	SWITCH, TOP/BTM TEMP ADJ	120V
29B	2	2J-3006099	SWITCH, TOP/BTM TEMP ADJ	208/240V
30A	1	J6-47672	ASSY,CORDSET 20A-125VAC	120V
30B	1	J6-50578	ASSY,CORDSET 2050V 20A	208/240V
31	1	2T-38079	COOL DOWN THERMOSTAT NORMALLY OPEN (closes at 120°F)	
32	1	2E-48635	CIRCUIT BREAKER, 0.3A	
33	1	J6-45082	ASSY, CORDSET AXIAL COOLING FAN	
34	1	2E-3002639	RECEPTACLE, 120V	
35	1	2E-3002640	PLATE COVER SS WALL	
36	1	F7-47437	FRAME, FRONT	
36A	1	F7-47457	FRAME, REAR	
37	1	J6-47394	BRACKET, RIGHT W/BUSHING	
38	1	J6-47393	BRACKET, LEFT W/BUSHING	

View of EXTERIOR PARTS



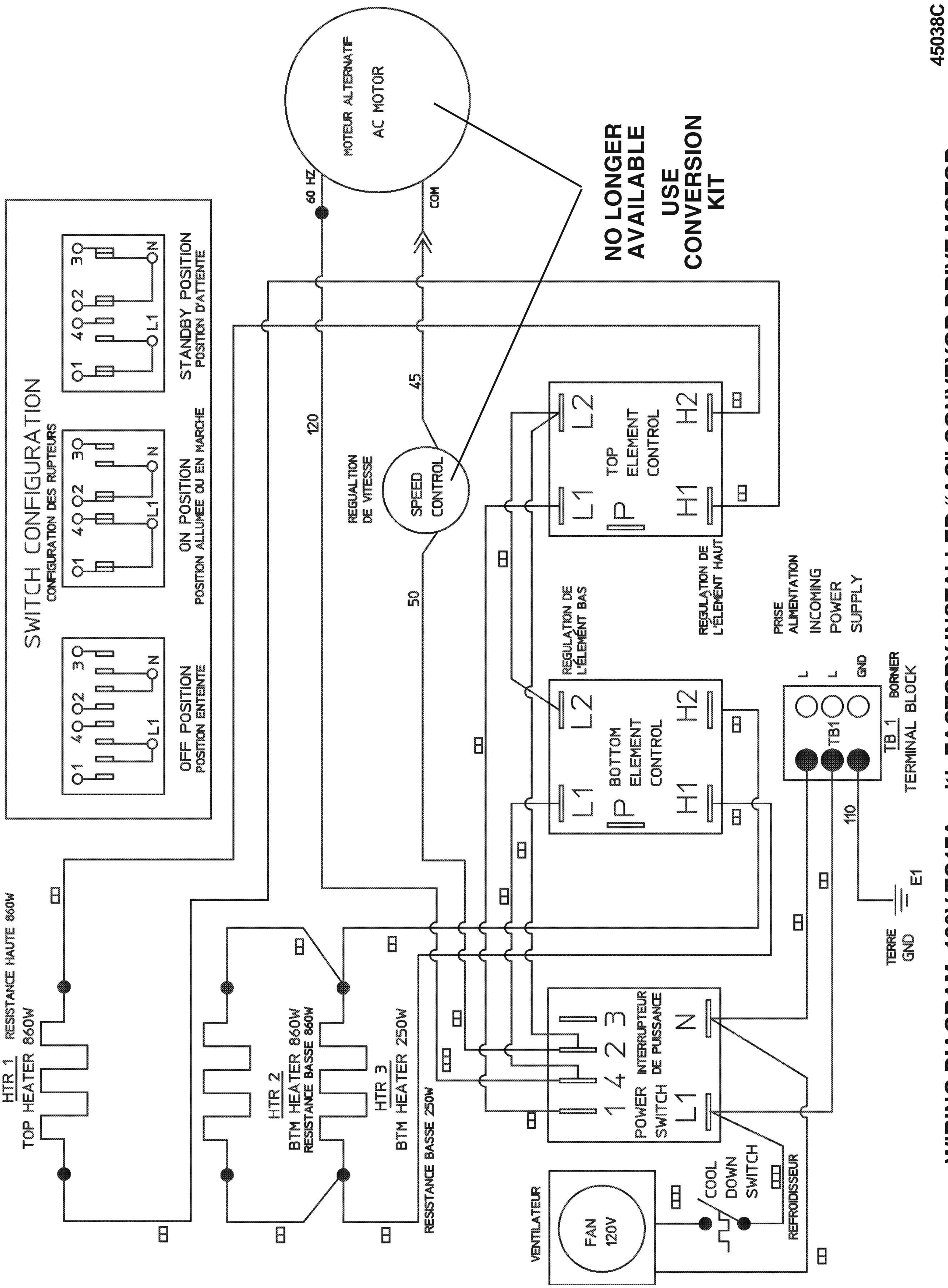
OPTIONS:

REAR EXIT TRAY, PART NUMBER 45783

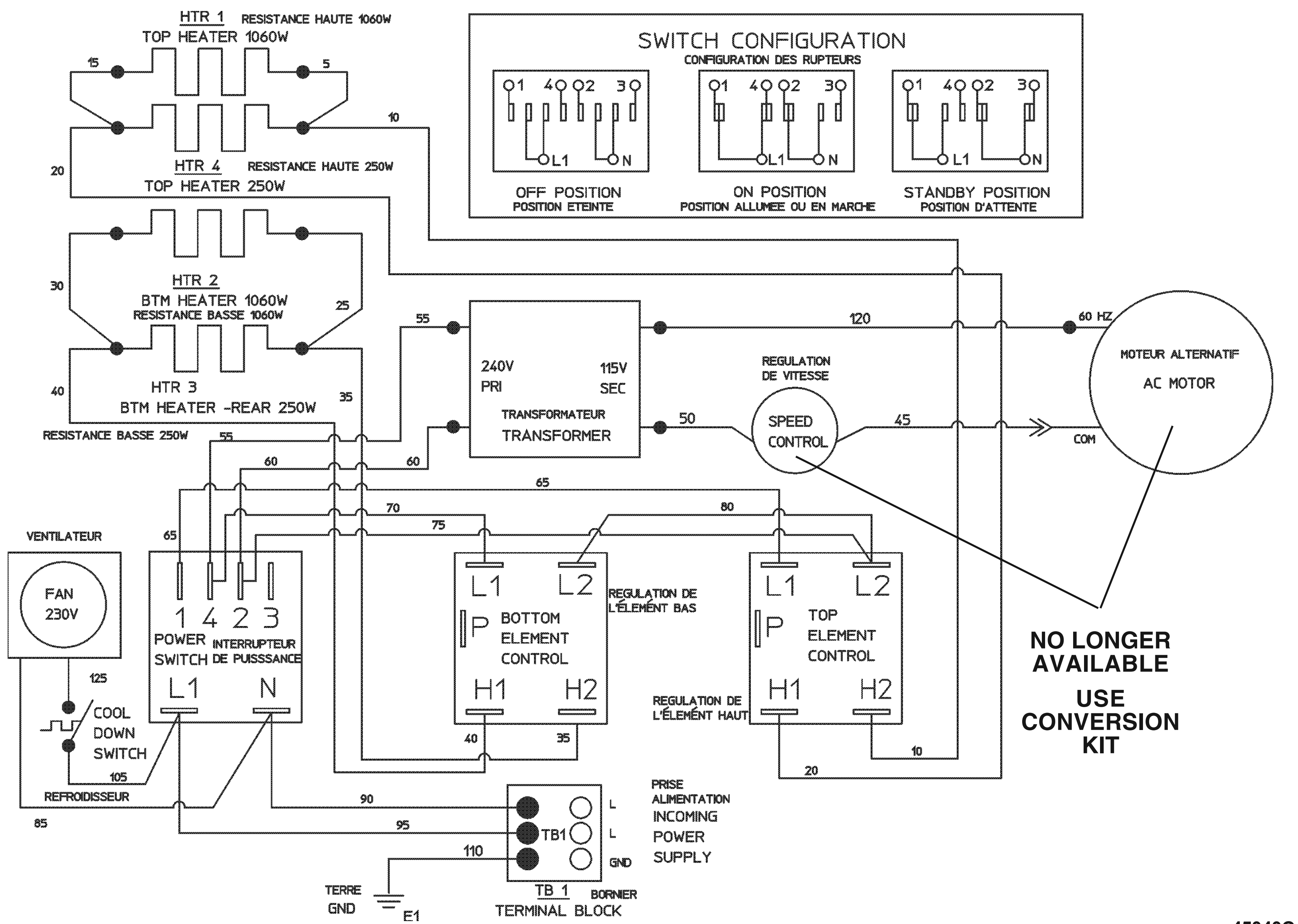
HORIZONTAL ENTRANCE RACK, PART NUMBER 47203

CONVEYOR SUPPORT, EC PART NUMBER 47669

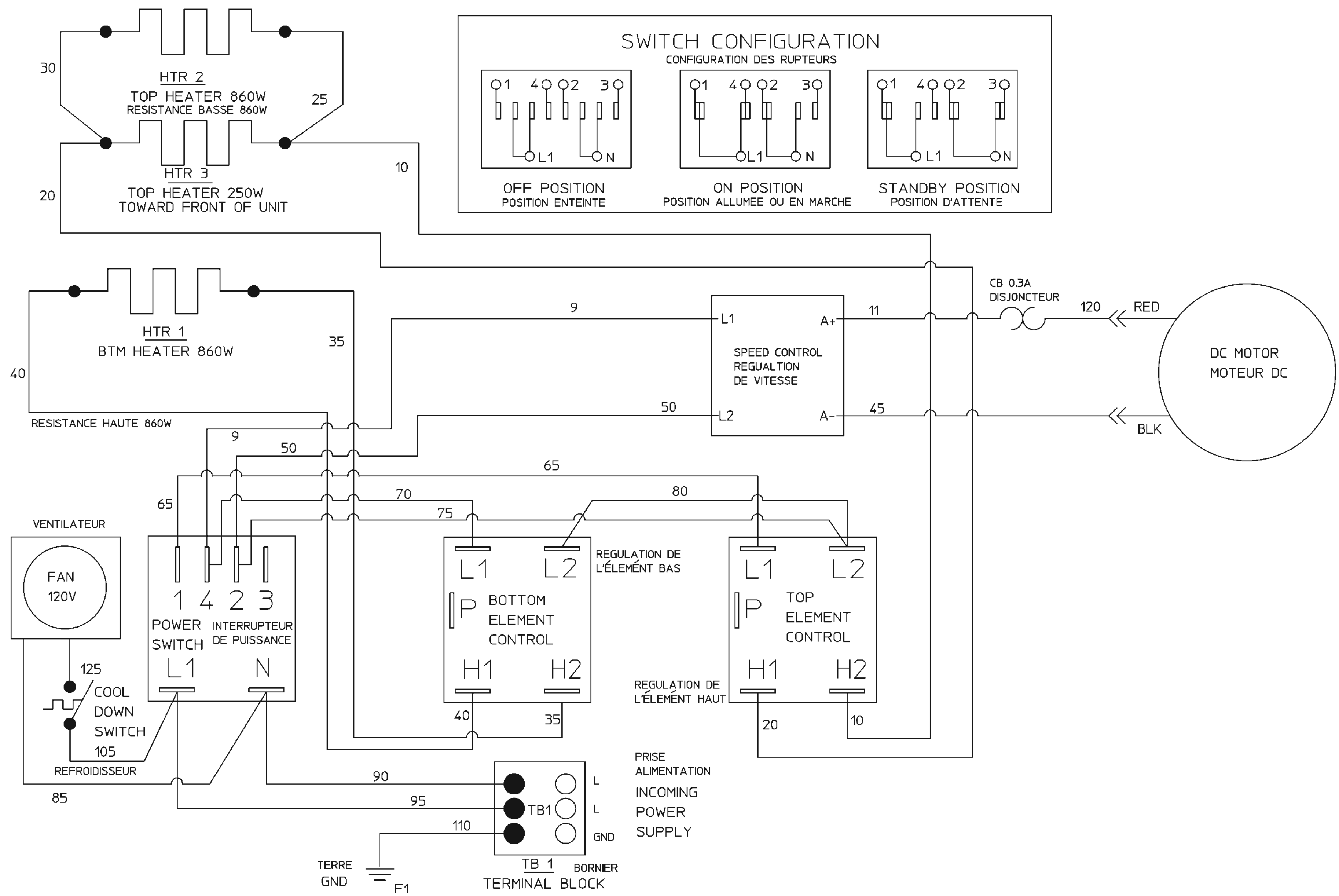
TC17A & TC21A CONVEYOR TOASTER INTERIOR PARTS				
Item No	Qty	Part No	Description	Application
1	1	J6-3951	WLDMT, EXIT REAR	
2	1	2W-50576	WLDMT,RACK RETURN	TC17/TC21
3a	2	*33253 NLA*	PANEL, SIDE	TC17A
3b	2	*39278 NLA*	PANEL, SIDE	TC21A
5	4	2R-48775	ASSY, LEG, 4”	
6	4	2R-3101908	LEG, 4IN ADJ FT (NPS)	
7	4	2P-31254	CUP, FOOT CUT DOWN	
8a	1	J6-33390	PAN, CRUMB TRAY, SLIDE-IN	TC17
8b	1	J6-39259	PAN, ENTRANCE CRUMB	TC21
8c	1	J6-47383	CRUMB TRAY, SLIDE-IN	FEC-TC17
8d	1	J6-47572	CRUMB TRAY, SLIDE-IN	FEC-TC21
9	1	2D-33391	PAN,CRUMB LOWER	
10	1	2B-33410	RACK, ENTRANCE TC14	
11a	1	J6-47672	ASSY,CORDSET 20A-125VAC	120V
11b	1	J6-50578	ASSY,CORDSET 250V 20A(6-20P)	208/240V
OPTIONS				
	1	J6-45783	EXIT TRAY, REAR	
	1	J6-47203	ENTRANCE RACK, HORIZONTAL	



WIRING DIAGRAM, 120V TC17A, with FACTORY INSTALLED "AC" CONVEYOR DRIVE MOTOR

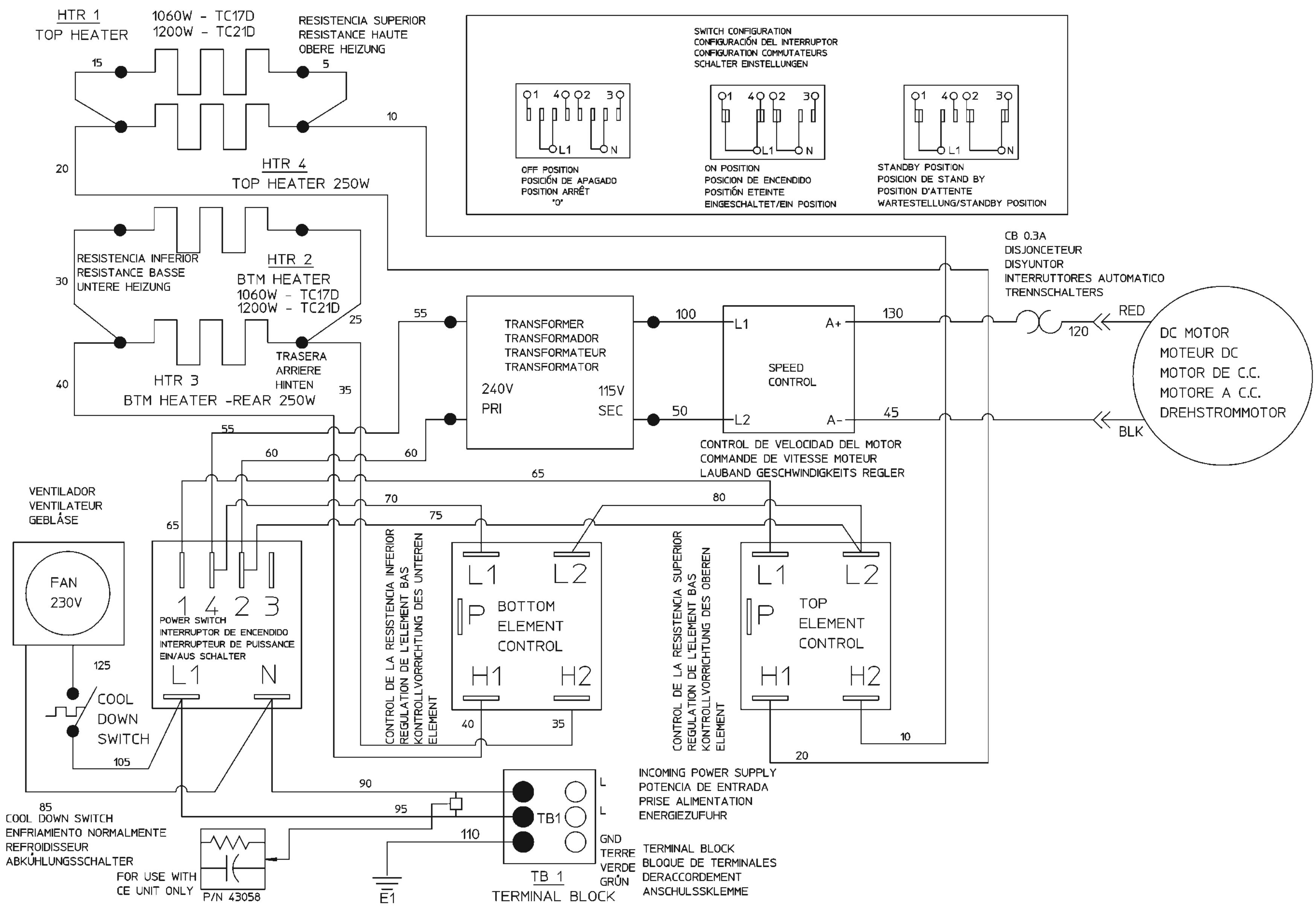


WIRING DIAGRAM, 208/240V TC17A & TC21A, with FACTORY INSTALLED "AC" CONVEYOR DRIVE MOTOR



52285C

WIRING DIAGRAM, 120V TC17A, CONVERTED TO "DC" CONVEYOR DRIVE MOTOR



WIRING DIAGRAM, 208/240V TC17A & TC21A, CONVERTED TO "DC" CONVEYOR DRIVE MOTOR 52287C

REVISIONS			
LTR	DESCRIPTION	ECN #	BY/DATE
B	RELEASED TO PRODUCTION	004045	KM 2/16/04

DC MOTOR CONVERSION

1. Make sure to UNPLUG / DISCONNECT ALL POWER TO TOASTER !!!!!!!!!!!!!!!!!!!!!!!!!!!!!
1A—MAKE SURE TOASTER IS COLD NOT HOT!
2. Turn toaster on left side as you look at the front.
3. Remove and save 2 screws on right side panel, set panel aside.
4. Remove 4 phillips screws on bottom panel, carefully lower panel. Unplug cooling fan and set aside bottom panel and screws.
5. ***** If you are working on a TC-17 you will be using a new bottom panel. Remove cooling fan and cover and install on new panel provided *******
6. Using small allen wrench loosen set screw on speed control knob (set aside). Now remove nut and washer holding speed control in place.
7. Pull speed control out and let hang, carefully cut zip ties on wiring.
8. Loosen 4 phillips screws on motor, slide motor towards rear of toaster and remove drive chain.
9. Using allen wrench loosen set screw on motor sprocket and remove.
10. Remove 4 screws(SAVE SCREWS) on motor and remove motor.
11. Disconnect wires from X1 and X2 on transformer and pull motor and speed control out of unit completely.

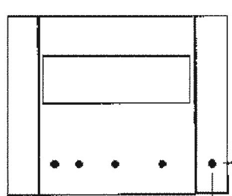
INSTALLATION OF NEW COMPONENTS

1. Take new speed control in hand,(using wire set provided) connect wire #50 from X2 on transformer to L2 on control.
2. Connect wire # 100 from X1 on transformer to L1 on control.

****NOTE: DO NOT INSTALL SPEED CONTROL IN THIS UNIT YET******JUST CONNECT WIRES.

3. Install motor using 4 phillips screws from old motor (do not tighten motor in place yet)
4. Install new motor drive sprocket, mount sprocket flush with the end of the motor drive shaft.
5. Connect drive chain, pull back on motor till chain is tight and secure motor.

** ON FACE/FRONT OF TOASTER YOU WILL NEED TO DRILL A 3/8 INCH HOLE. MAKE SURE



HOLE IS INLINE WITH CONTROL SHAFTS AND CENTERED ON RIGHT SIDE.

6. Once hole is drilled make sure to DEBUR and install circuit breaker. Make sure nut and washer are secure.
7. Using wire #130 in wire set, Hook to A+ terminal on board. Feed wire up through brass grommet and connect to one side of the circuit breaker.
8. Using wire # 120 in wire set, Hook to circuit breaker. Feed wire through same brass grommet and connect to red lead on motor.
9. Connect wire #45 to A- on control board then hook other end to black lead on motor.
10. NOW using your meter you will set min/max pots on speed control. SEE CHART PROVIDED FOR MIN/MAX SETTINGS.
11. Once pots have been set to specified settings install and secure speed control with L1&A+ Terminals towards the bottom of the toaster.
12. Zip tie all loose wires.
13. Connect plug to cooling fan on bottom panel and install bottom panel with 4 screws.
14. Install right side cover, slide into place and secure with 2 screws previously used.
15. Set toaster on its feet and install MOTOR RESET sticker below circuit breaker.

*** you are finished plug in and test***

CHART FOR MIN/MAX SETTINGS

FOR BLUE PLASTIC POT ONLY			
Unit Voltage	Variac Voltage	Min Pot	Max Pot
TC 17- 120	120	10	103
TC 17- 208	106	10	103
TC 17- 240	120	10	103
TC 21- 208	106	45	111
TC 21- 240	120	45	111
FOR METALLIC POTS ONLY			
Unit Voltage	Variac Voltage	Min Pot	Max Pot
TC 17-120	120	10	103
TC 17- 208	106	10	93
TC 17- 240	120	10	103
TC 21- 208	106	39	94
TC 21- 240	120	45	111

This Dwg is confidential and property of Middleby Marshall Inc.

TOL UNLESS SPECIFIED
ANGLES ± 1.0°
DEC. .X ± .030
.XX ± .020
.XXX ± .005

DRAWN K.MISCHUNG 2/16/04
CHECKED
APPROVED

Middleby Cooking Systems Group

Middleby Marshall Inc.
1400 Toastmaster Drive
Elgin, Illinois 60120
(847) 741-3300

PRODUCT LINE TC17D/21D
FILE NAME 52435
MATERIAL
FINISH
DESCRIPTION INSTR,DC MTR CNVRSN TC17D/21D
PART NO 52435
SHT 1 OF 1
REV B

52435B

Instructions to convert to "DC" Conveyor Motor, 52435